



# Data Management Global Precipitation Measurement

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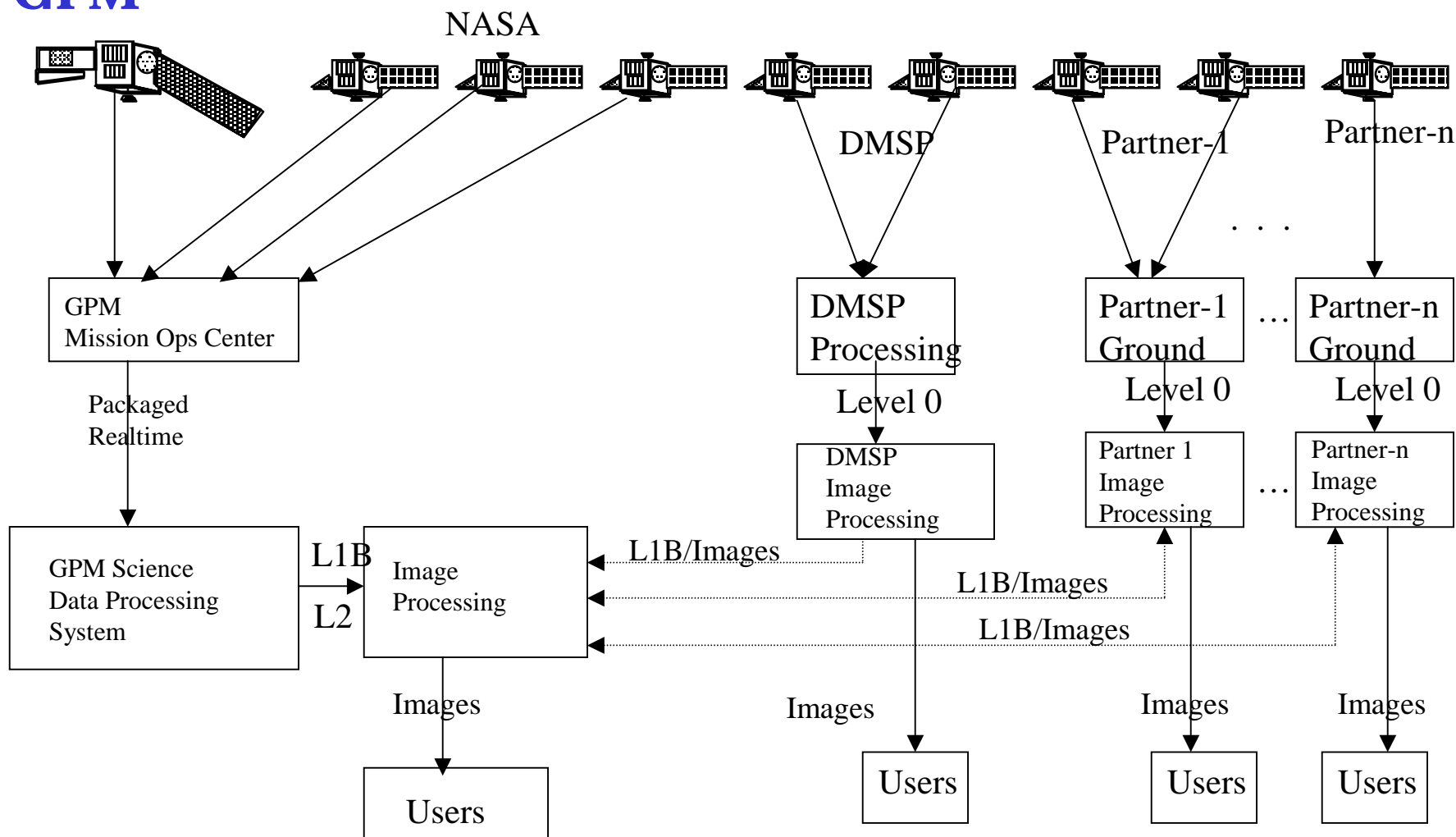
# Guiding Data Management Principle

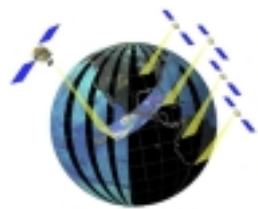
**E Pluribus Unum**

*From Many One*



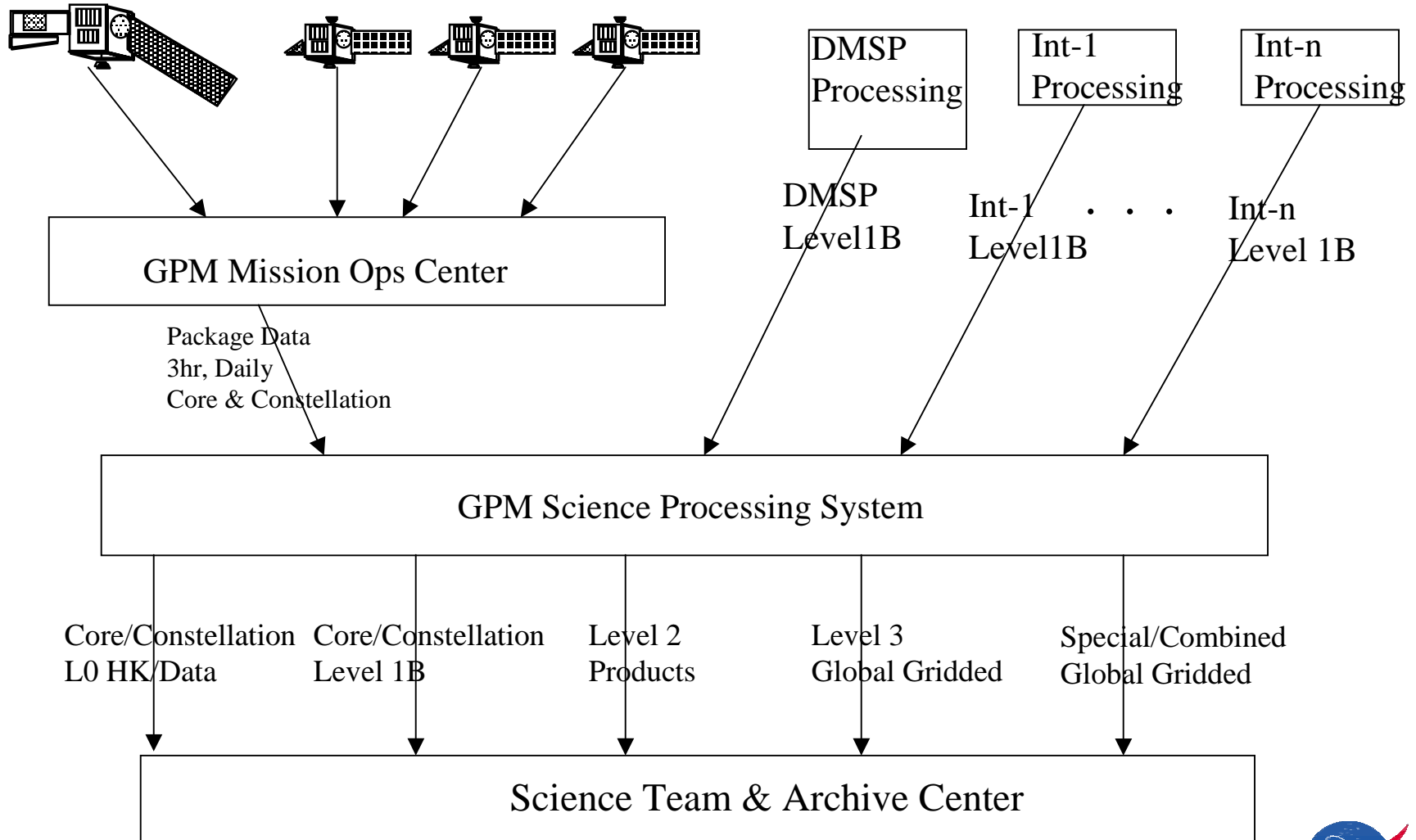
# GPM Realtime Data Flow (Reference)





**GPM**

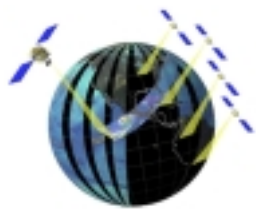
# GPM 3hr and Climate Data Flow (Reference)





## E Pluribus

- Many partners
- Many cultures
- Many different satellites
- Many satellites added and/or replaced at many different time periods (build for continuous replacement and refresh) {Goal}
- Many different instruments with different fields of view
- Many different data sources
- Many types of data streams (initially realtime, 3 hr, climate products)
- Many different processing systems
- Many different processing environment
- Many different hardware and software configurations
- Many different science discipline interests
- Many different uses for the data



**GPM**

## Coordination is the Key to Success (*Unum*)

- Early acceptance of a governing entity – GPM Joint Science Team
- Coordination and Agreement on core mission:
  - Data products
  - Data formats
  - Data flows
  - Data delivery requirements
  - Level 1b calibration approaches
  - Common geo-location approaches
  - Processing responsibilities
  - Distribution approaches
  - End to End testing strategy and approach for the “GPM Processing System”
- Coordination Process
  - Started very early in the mission process
  - Conducted in a streamlined, direct and continuous manner
  - Minimize the overhead and maximize the results
  - Undertaken by a manageable size steering group with the appropriate technical expertise under the direction of GPM Joint Science team
  - Carried out by individuals who have the authority to commit their respective funding sources



Success of GPM Data Production is not determined  
by success of one of its components but ALL its  
components